

**SELECTIVE NON-CATALYTIC REDUCTION (SNCR) OF TOXIC
GASEOUS EFFLUENTS**

ABSTRACT OF THE DISCLOSURE

5 Selective non-catalytic reducing (SNCR) compounds, independent
of the gas generant composition, reduce the toxicity of effluent gases produced
by combustion of nonazide gas generating compositions used to inflate vehicle
occupant restraint systems. It is believed that reaction of the NH_2 radical
(formed from the SNCR compound) with NO in the combustion gas forms N_2
thereby decreasing the concentration of toxic nitrogen oxides therein.
Heterogeneous placement of the reducing compound proximate to the gas
generant bed within a gas generator ensures intimate contact with the
combustion gases, and yet still provides a noninvasive method of toxic gas
reduction.